# PATENT COOPERATION TREATY

**PCT** 



(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  GEN-002 PCT	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/)	year) (Earliest) Priority Date (day/month/year)		
PCT/EP 03/09689	01/09/2003	30/08/2002		
Applicant				
GENEART GMBH				
This International Search Report has been according to Article 18. A copy is being tra		hing Authority and is transmitted to the applicant		
This International Search Report consists  It is also accompanied by	of a total of6 shee a copy of each prior art document cite			
Basis of the report				
	international search was carried out o ess otherwise indicated under this iter	n the basis of the international application in the m.		
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a transle	ation of the international application furnished to this		
b. With regard to any nucleotide an was carried out on the basis of the	d/or amino acid sequence disclosed e sequence listing :	in the international application, the international search		
. —	nal application in written form.	•		
filed together with the inte	rnational application in computer read	lable form.		
furnished subsequently to	this Authority in written form.			
furnished subsequently to	this Authority in computer readble for	m.		
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
the statement that the info furnished	rmation recorded in computer readab	le form is identical to the written sequence listing has been		
2. X Certain claims were fou	nd unsearchable (See Box I).			
3. Unity of invention is lac	king (see Box II).			
4. With regard to the <b>title</b> ,				
X the text is approved as su	bmitted by the applicant.			
the text has been establis	hed by this Authority to read as follows	s:		
·				
5. With regard to the abstract,				
X the text is approved as su	bmitted by the applicant.			
the text has been establis within one month from the	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.			
6. The figure of the drawings to be publi	shed with the abstract is Figure No.			
as suggested by the appli	cant.	X None of the figures.		
because the applicant faile	ed to suggest a figure.			
because this figure better	characterizes the invention.			

#### INTERNATIONAL SEARCH REPORT

International Application No

A. CLAS	SSIFICATION	OF SUBJECT	MA
IPC 7	7 C12N	15/86	

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, WPI Data

	C. DOCUME	MENTS CONSIDERED TO BE RELEVANT				
	Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
/	X	US 2002/090716 A1 (MEREDITH DAVID MARK ET AL) 11 July 2002 (2002-07-11) see p. 1, right column to p. 2 and claims	1-12			
<i>-</i> ا	X	WO 01 60403 A (BOEHRINGER INGELHEIM VETMED; ELBERS KNUT (DE); OSTERRIEDER NIKOLAU) 23 August 2001 (2001-08-23) see p. 6	1–12			
/	X	US 6 187 320 B1 (STRUBE WALTER ET AL) 13 February 2001 (2001-02-13) see column 8	1-12			
/	X	US 6 387 685 B1 (MEREDITH DAVID MARK ET AL) 14 May 2002 (2002-05-14) the whole document	1–12			
		-/				
	Further documents are listed in the continuation of box C.					

Special categories of cited documents:     A' document defining the general state of the art which is not considered to be of particular relevance     E' earlier document but published on or after the international filing date     L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)     O' document referring to an oral disclosure, use, exhibition or other means	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> </ul>
"P" document published prior to the international filing date but later than the priority date claimed	'&' document member of the same patent family
Date of the actual completion of the international search  18 November 2003	Date of mailing of the international search report  12/12/2003
10 NOVEINDET 2003	12/12/2003
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk	Authorized officer
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Paresce, D

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## INTERNATIONAL SEARCH REPORT

International Application No

Г	C.(Continua	ation) DOCUMENTS CONST	
t	Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	X	US 6 225 111 B1 (COCHRAN MARK D ET AL) 1 May 2001 (2001-05-01) see columns 2-3	1-12
	Χ .	ROUMILLAT L F ET AL: "PERSISTENT INFECTION OF A HUMAN LYMPHOBLASTOID CELL LINE WITH EQUINE HERPESVIRUS 1" INFECTION AND IMMUNITY, AMERICAN SOCIETY FOR MICROBIOLOGY. WASHINGTON, US, vol. 24, no. 2, 1 May 1979 (1979-05-01), pages 539-544, XP002059120 ISSN: 0019-9567 the whole document	1-8
	X	RUDOLPH JENS ET AL: "Equine herpesvirus type 1 devoid of gM and gp2 is severely impaired in virus egress but not direct cell-to-cell spread." VIROLOGY, vol. 293, no. 2, 15 February 2002 (2002-02-15), pages 356-367, XP002219690 February 15, 2002 ISSN: 0042-6822 see p. 356-7	1-8
	X	NEUBAUER ANTONIE ET AL: "Equine herpesvirus 1 mutants devoid of glycoprotein B or M are apathogenic for mice but induce protection against challenge infection" VIROLOGY, ACADEMIC PRESS,ORLANDO, US, vol. 239, no. 1, 8 December 1997 (1997-12-08), pages 36-45, XP002146619 ISSN: 0042-6822 see p.38-39	1-8

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### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-3, 5-12 partially

Present claims 1-3, 5-12 relate to an extremely large number of possible compounds/products/methods. In fact, the claims contain so many options, variables, possible permutations and provisos that a lack of clarity (and conciseness) within the meaning of Article 84 EPC arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and concise), namely a recombinant animal virus, said virus being an equine herpesvirus, having the ability to transduce primary cells in vitro with a multiplicity of infection of less than 1, said primary cells derived from organisms not being the natural host.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: 1-3, 5-12 partially because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that 1.2 meaningful International Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
. $\Box$	
<del>4</del>	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest  The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

### **INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No
PC P 03/09689

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002090716	A1	11-07-2002	AU AU EP WO GB JP NZ US	735339 B2 7738798 A 0953054 A1 9827216 A1 2335426 A ,B 2001506854 T 336047 A 6387685 B1	05-07-2001 15-07-1993 03-11-1999 25-06-1998 22-09-1999 29-05-2001 23-02-2001 14-05-2002
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